

S PN=DE 3911610

S2 1 PN=DE 3911610  
?

T S2/9

2/9/1

DIALOG(R)File 351:Derwent WPI

(c) 2006 Thomson Derwent. All rts. reserv.

008434339 \*\*Image available\*\*

WPI Acc No: 1990-321339/ 199043

XRAM Acc No: C90-139150

XRPX Acc No: N90-246128

**Artificial disk - for implantation between vertebrae made of specified biocompatible materials**

Patent Assignee: BOSCH GMBH ROBERT (BOSC )

Inventor: ESPER F; GOHL W; HARMS J; OBERLE J

Number of Countries: 014 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
<del>DE 3911610</del>	A	19901018	DE 3911610	A	19890408	199043 B
WO 9011740	A	19901018				199044
EP 465514	A	19920115	EP 90905181	A	19900405	199203
EP 465514	B1	19930113	EP 90905181	A	19900405	199302
			WO 90DE266	A	19900405	
DE 59000763	G	19930225	DE 500763	A	19900405	199309
			EP 90905181	A	19900405	
			WO 90DE266	A	19900405	
ES 2038517	T3	19930716	EP 90905181	A	19900405	199333

Priority Applications (No Type Date): DE 3911610 A 19890408

Cited Patents: EP 107476; EP 298233; EP 356112; US 4309777

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
-----------	------	-----	----	----------	--------------

WO 9011740	A				
------------	---	--	--	--	--

Designated States (National): US

Designated States (Regional): AT BE CH DE DK ES FR GB IT LU NL SE

EP 465514	A				
-----------	---	--	--	--	--

Designated States (Regional): CH DE ES FR IT LI

EP 465514	B1 G	4	A61F-002/44	Based on patent WO 9011740
-----------	------	---	-------------	----------------------------

Designated States (Regional): CH DE ES FR IT LI

DE 59000763	G		A61F-002/44	Based on patent EP 465514
-------------	---	--	-------------	---------------------------

Based on patent WO 9011740

ES 2038517	T3		A61F-002/44	Based on patent EP 465514
------------	----	--	-------------	---------------------------

Abstract (Basic): DE 3911610 A

An artificial disk for implanting to replace a slipped disk between two vertebrae of the spinal column is made of a carrier disk (1) of silicone rubber with a rectangular or conical cross-section. Both sides of the carrier are lined by cover plates (2) made of carbon fibre reinforced thermosets, pref. of RECIFORM -TCF (TRIAZIN resin/C fibre). A rim bead (3) shapes the disk to suit the vertebrae. To join the disks to the bones, a layer of hydroxylapatite or of a mixt. of it with an ALPHA or BETA tricalciumphosphate is applied to the cover plate.

ADVANTAGE - This can be implanted in one piece, not in parts as in the conventional case. The new implant suffers no abrasion which is an extremely useful point. (4pp Dwg.No.1-3)

Abstract (Equivalent): EP 465514 B

Artificial intervertebral disc for implanting between two vertebrae of the spinal column, characterised in that a substrate (1) of a biocompatible silicone rubber is covered on both sides by cover panels (2) of a carbon fibre-reinforced, biocompatible thermoset material.

(Dwg.2/3)

Title Terms: ARTIFICIAL; DISC; IMPLANT; VERTEBRA; MADE; SPECIFIED; BIOCOMPATIBLE; MATERIAL

Derwent Class: A96; D22; P32; P34

International Patent Class (Main): A61F-002/44

International Patent Class (Additional): A61L-027/00

File Segment: CPI; EngPI

Manual Codes (CPI/A-N): A06-A00E3; A12-S08C; A12-S08D; A12-V02; D09-C01D

Plasdoc Codes (KS): 0009 0011 0020 0231 1306 1311 3191 2020 2213 2675 3258 2765 2657

Polymer Fragment Codes (PF):

\*001\* 014 032 04- 05- 153 229 23& 231 308 309 38- 43& 473 50& 525 55& 597 598 62- 645 651 684 720 723

Derwent Registry Numbers: 5086-U

?